

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Hiroyuki ARAKI, et al.

SERIAL NO: NEW APPLICATION

FILED: HEREWITH

FOR: HIGHLY PRODUCTIVE ALPHA-AMYLASES

GAU:

EXAMINER:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references were filed on December 31, 2001 and May 6, 2002 and were also entered by the U.S. Patent Office on January 23, 2003 and June 26, 2003 in U.S. Application Serial No. 09/971,611 filed October 9, 2001, allowed, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. <b>250193US0CONT</b>		SERIAL NO. <b>NEW APPLICATION</b>	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT <b>Hiroyuki ARAKI, et al.</b>			
				FILING DATE <b>HEREWITH</b>		GROUP	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	5,635,468	06/03/97	Ara, et al.			
	AB	5,989,169	11/23/99	A. Svendsen, et al.			
	AC	6,410,295	06/2002	Svendsen, et al.			
	AD	6,436,888	08/2002	Svendsen, et al.			
	AE	6,309,871	10/2001	Outtrup et al.			
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES                  NO		
	AO	WO 9426881 A	11/24/94	WIPO			
	AP	WO 98/44126	10/08/98	WIPO			
	AQ	JP 98362487	12/21/98	JAPAN			
	AR	2000-184882	07/04/00	JAPAN			
	AS	JP 98362488	12/21/98	JAPAN			
	AT	2000-184883	07/04/00	JAPAN			
	AU	2001-54392	02/27/01	JAPAN			
	AV						
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AW	A. TSUKAMOTO, et al., Biochemical and Biophysical Research Communications, Vol. 151, No. 1, pp. 25-31, XP-000605386, "NUCLEOTIDE SEQUENCE OF THE MALTOHEXAOSE-PRODUCING AMYLASE GENE FROM AN ALKALOPHILIC BACILLUS SP. #707 AND STRUCTURAL SIMILARITY TO LIQUEFYING TYPE ALPHA-AMYLASES", February 29, 1988					
	AX	K. IGARASHI, et al., Biochemical and Biophysical Research Communications, Vol. 248, No. 2, pp. 372-377, XP-002901159, "IMPROVED THERMOSTABILITY OF A BACILLUS ALPHA-AMYLASE BY DELETION OF AN ARGININE-GLYCINE RESIDUE IS CAUSED BY ENHANCED CALCIUM BINDING", 1998					
	AY	Yuuki (a) et al. SwissProt database accession No. P06278, Jan. 1, 1988.					
	AZ	Yuuki (b) et al. PIR database accession No. A91997, 30 Jun. 1987.				<input type="checkbox"/> Additional References sheet(s) attached	
Examiner		Date Considered					
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
250193US0CONTSERIAL NO.  
NEW APPLICATION

## LIST OF REFERENCES CITED BY APPLICANT

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Hiroyuki ARAKI, et al.FILING DATE  
HEREWITH

GROUP

## U.S. PATENT DOCUMENTS

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	AA						
	AB						
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	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO	WO 96/23873	08/08/96	WIPO		
	AP	WO 98/05748	02/12/98	WIPO		
	AQ	WO 00/60058	10/12/00	WIPO		
	AR	1 065 277	01/03/01	EUROPE		
	AS					
	AT					
	AU					
	AV					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	
	AX	
	AY	
	AZ	<input type="checkbox"/> Additional References sheet(s) attached

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Date Considered

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